

AMENDMENTS

In the Claims:

Please amend the claims as follows:

1. (previously presented): A method for detecting pregnancy in a bovine animal comprising:

- (a) obtaining a sample from said animal; and
(b) contacting said sample with an antibody that binds immunologically to at least one pregnancy associated antigen (PAG), wherein said PAG is present in early pregnancy and ^{undetectable} absent at about two months post-partum; and
(c) detecting said PAG bound to said antibody;

whereby the presence of said PAG in said sample indicates that said animal is pregnant.

2. (currently amended): The method of claim 1, wherein said PAG is selected from the group consisting of PAG2 (SEQ ID NO:25), PAG4 (SEQ ID NO:27), PAG5 (SEQ ID NO:28), PAG6 (SEQ ID NO:29), PAG7 (SEQ ID NO:30) and PAG9 (SEQ ID NO:32).

3. (original): The method of claim 1, wherein said sample is saliva, serum, blood, milk or urine.
4. (original): The method of claim 3, wherein said sample is saliva.
5. (original): The method of claim 3, wherein said sample is serum.
6. (original): The method of claim 3, wherein said sample is blood.
7. (original): The method of claim 3, wherein said sample is milk.

8. (original): The method of claim 3, wherein said sample is urine.
9. (canceled)
10. (currently amended): The method of claim 1, wherein said detection comprises detection of bovine PAG (BoPAG) 2 (SEQ ID NO:25), BoPAG4 (SEQ ID NO:27), BoPAG5 (SEQ ID NO:28), BoPAG6 (SEQ ID NO:29), BoPAG7 (SEQ ID NO:30), BoPAG9 (SEQ ID NO:32), BoPAG 7v (SEQ ID NO:40); BoPAG9v (SEQ ID NO:42); BoPAG 15 (SEQ ID NO:44); BoPAG 16 (SEQ ID NO:46); BoPAG 17 (SEQ ID NO:48); BoPAG 18 (SEQ ID NO:50); BoPAG 19 (SEQ ID NO:52); BoPAG 20 (SEQ ID NO:54) or BoPAG 21 (SEQ ID NO:56) with polyclonal antisera.
11. (currently amended): The method of claim 1, wherein said detection comprises detection of bovine PAG (BoPAG) 2 (SEQ ID NO:25), BoPAG4 (SEQ ID NO:27), BoPAG5 (SEQ ID NO:28), BoPAG6 (SEQ ID NO:29), BoPAG7 (SEQ ID NO:30), BoPAG9 (SEQ ID NO:32), BoPAG 7v (SEQ ID NO:40); BoPAG9v (SEQ ID NO:42); BoPAG 15 (SEQ ID NO:44); BoPAG 16 (SEQ ID NO:46); BoPAG 17 (SEQ ID NO:48); BoPAG 18 (SEQ ID NO:50); BoPAG 19 (SEQ ID NO:52); BoPAG 20 (SEQ ID NO:54) or BoPAG 21 (SEQ ID NO:56) with a monoclonal antibody preparation.
12. (currently amended): The method of claim [[9]] 1, wherein said detection comprises ELISA.
13. (currently amended): The method of claim [[9]] 1, wherein said detection comprises RIA.
14. (currently amended): The method of claim [[9]] 1, wherein said detection comprises Western blot.
- 15-29 (canceled)

30. (original): The method of claim 1, further comprising detecting a second PAG in said sample.
31. (original): The method of claim 30, further comprising detecting a third PAG in said sample.
32. (original): The method of claim 12, wherein said ELISA is a sandwich ELISA comprising binding of a PAG to a first antibody preparation fixed to a substrate and a second antibody preparation labeled with an enzyme.
33. (original): The method of claim 32, wherein said enzyme is alkaline phosphatase or horseradish peroxidase.
34. (original): The method of claim 32, wherein said first antibody preparation is monoclonal.

35-181 (canceled)

182. (currently amended): The method of claim 10, wherein BoPAG 2 has the sequence of SEQ ID NO:25, BoPAG4 has the sequence of SEQ ID NO:27, BoPAG5 has the sequence of SEQ ID NO:28, BoPAG6 has the sequence of SEQ ID NO:29, BoPAG7 has the sequence of SEQ ID NO:30, BoPAG9 has the sequence of SEQ ID NO:32, BoPAG 7v has the sequence of SEQ ID NO:40; BoPAG9v has the sequence of SEQ ID NO:42; BoPAG 15 has the sequence of SEQ ID NO:44; BoPAG 16 has the sequence of SEQ ID NO:46; BoPAG 17 has the sequence of SEQ ID NO:48; BoPAG 18 has the sequence of SEQ ID NO:50; BoPAG 19 has the sequence of SEQ ID NO:52; BoPAG 20 has the sequence of SEQ ID NO:54 [[or]] and BoPAG 21 has the sequence of SEQ ID NO:56 with polyclonal antisera.

183. (currently amended): The method of claim 11, wherein BoPAG2 has the sequence of SEQ ID NO:25, BoPAG4 has the sequence of SEQ ID NO:27, BoPAG5 has the sequence

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of SEQ ID NO:28, BoPAG6 has the sequence of SEQ ID NO:29, BoPAG7 has the sequence of SEQ ID NO:30, BoPAG9 has the sequence of SEQ ID NO:32, BoPAG 7v has the sequence of SEQ ID NO:40; BoPAG9v has the sequence of SEQ ID NO:42; BoPAG 15 has the sequence of SEQ ID NO:44; BoPAG 16 has the sequence of SEQ ID NO:46; BoPAG 17 has the sequence of SEQ ID NO:48; BoPAG 18 has the sequence of SEQ ID NO:50; BoPAG 19 has the sequence of SEQ ID NO:52; BoPAG 20 has the sequence of SEQ ID NO:54 [[or]] and BoPAG 21 has the sequence of SEQ ID NO:56 with a monoclonal antibody preparation.